

6. (Amended) A solid glass composite matrix according to claim 1, wherein at least 50% w/w of the glass composite matrix comprises glass granules of grain size 0mm-6mm.

7. (Amended) A solid glass composite matrix according to claim 1, wherein at least 10% w/w of the glass composite matrix comprises glass granules of grain size 0mm-4mm.

8. (Amended) A solid glass composite matrix according to claim 1, wherein at least 10% w/w of the glass composite matrix comprises glass granules of grain size 4mm-6mm.

9. (Amended) A solid glass composite matrix according to claim 1, wherein granules between 6-10mm are present at a level less than 50% w/w.

A 10. (Amended) A solid glass composite matrix according to claim 1, wherein the binder resin comprises between 5% w/w and 20% w/w of the composite matrix.

11. (Amended) A solid glass composite matrix according to claim 1, wherein a coupling agent is present in the composite, to couple the glass and resin components together during setting of the composite.

12. (Amended) A solid glass composite matrix according to claim 1, wherein a reactive diluent is added to suit viscosity requirements.

13. (Amended) A solid glass composite matrix according to claim 12, wherein the reactive diluents comprise mono-functional or di-functional aliphatic or cycloaliphatic glycidyl ethers or esters.

14. (Amended) A solid glass composite matrix according to claim 12, wherein the

diluent is present at a level of 5-30% of the pre-cured resin.

15. (Amended) A solid glass composite matrix according to claim 11, wherein the coupling agent is present in the pre-cured resin at a level of 0.1-4.0% w/w.

16. (Amended) A solid glass composite matrix according to claim 11, wherein the ratio of glass granules to binder resin and coupling agent is in the range of 6:1 to 3:1.

A 17. (Amended) A method of producing a glass composite comprising the steps of:
contacting an aggregate of glass granules of average grain size less than 10mm with a binder resin,
mixing the granules into the un-set resin, and
allowing the resin to set so that the resin sets the granules into a solid composite matrix.

18. (Amended) A solid glass composite matrix according to claim 1, wherein the glass granules for screening applications have lead or barium or combined lead/barium levels of at least 3% by weight.

19. (Amended) A solid glass composite matrix according to claim 18, wherein the lead or barium levels or combined lead/barium levels for such applications are in the range 10-70% by weight in the glass granules.